



Seating for American Schools

NO. 303

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SCHOOL FURNITURE CATALOG

Presenting...

Seating *for* American Schools



SCHOOL FURNITURE
CATALOG No. 303

J. L. HAMMETT CO.
KENDALL SQUARE
CAMBRIDGE, - MASS.

AMERICAN SEATING COMPANY

FACTORY AND MAIN OFFICE
GRAND RAPIDS, MICHIGAN

DISTRIBUTING OFFICES
IN PRINCIPAL CITIES
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Our 1940 Report of Progress **to the School Officials of America**

IN THIS edition of *Seating for American Schools* we submit for your consideration striking advances in modern school furniture designing. Now, beautiful, practical streamlining comes into the classroom and auditorium together with new standards of serviceability, educational adaptability, hygienic comfort and outstanding new contributions to sight conservation for all pupils.

THROUGH THE years, both commendation and criticism on our progressively improved products have been accumulated and analyzed. Continuously, our research investigators have studied seating in the classroom. Our engineers have developed greatly improved methods of construction. Designers have achieved startling advances in artistic styling. Each new model has been proved through rigorous testing.

BETTER VALUES than ever before are offered in the new products. There are literally countless improvements, both visible and invisible. New production methods and new equipment make possible new economies and greater dollar values.

IN OFFERING these new products to the school officials of America, we pledge you that no ideal, no quality standard, no use-value hitherto achieved through our long experience and quality leadership has been sacrificed.

INSTEAD, OUR fixed policy insures ever higher standards through continuing laboratory research and testing and ceaseless inspection vigilance. You are assured of prompt service from large warehouse stocks, and of guaranteed satisfaction in every transaction.

OUR REPRESENTATIVES at the home office and at the branch and distributor offices listed on pages 47 and 48 will be glad to submit samples, prices and other information and to render any desired assistance toward solving your seating problems.

AMERICAN SEATING COMPANY,


President.

The *Universal* Ideal

UNIVERSAL is a trade designation applied by the American Seating Company specifically to a pupil's desk and generically to an extensive line of classroom seating. UNIVERSAL is both a **name** and an **ideal**.

The Universal Ideal Demands:

a design contributing most effectively to the good posture, sight conservation, health and comfort of every occupant, in the light of those anatomical facts which are *universal* among growing human beings.

the utmost flexibility in adaptation to individual variations in size and proportions, together with rigid adherence to the essentials which are *universally* applicable to all.

a basic design *universally* suited to every age and level of instruction, yet variable to best meet the peculiar requirements of each.

a diversified line of pupils' desks, tables and chairs suited to every method of instruction, to every plan of administration and management, to every school requirement.

the most perfect adaptability to varying light conditions, classroom arrangements, group and activity programs, as well as to individual learning efficiency.

the highest possible standards of materials, construction and finish, of tasteful designing and of dependable engineering, of durability, economy and satisfactory service in every unit and continuous progress toward ever higher standards through research, testing and experience.

artistic harmony in color and design throughout the entire UNIVERSAL line, such that all the varied and diversified classroom equipment of *The Universalized School* shall be harmonious in itself and with any architectural environment.

THE UNIVERSAL IDEAL is a standard by which to judge the UNIVERSAL Desk and the UNIVERSAL Line.

Presenting the

NEW *AMERICAN Universal* DESK

— in addition to all the unquestioned superiorities in posture and comfort; in materials, finish and construction; in use values and satisfactory service, which we have heretofore built into this great leader —

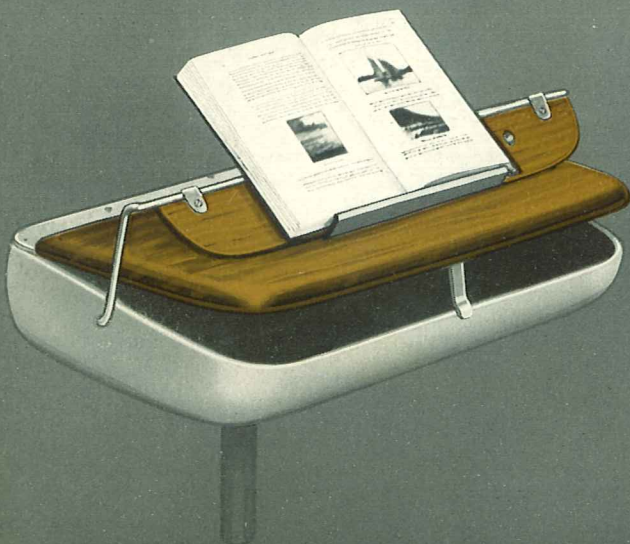
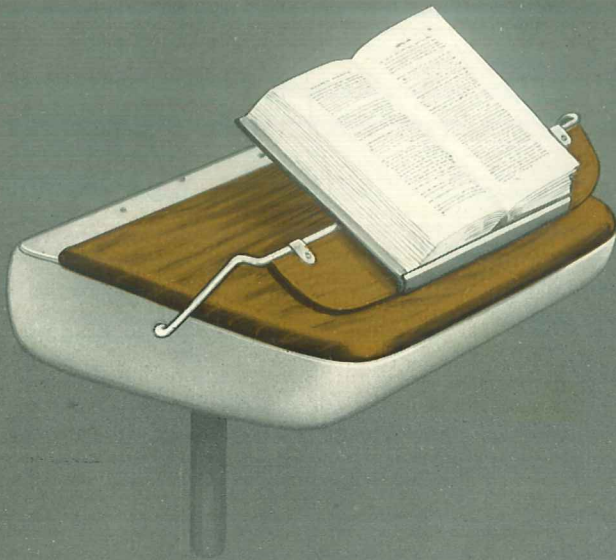
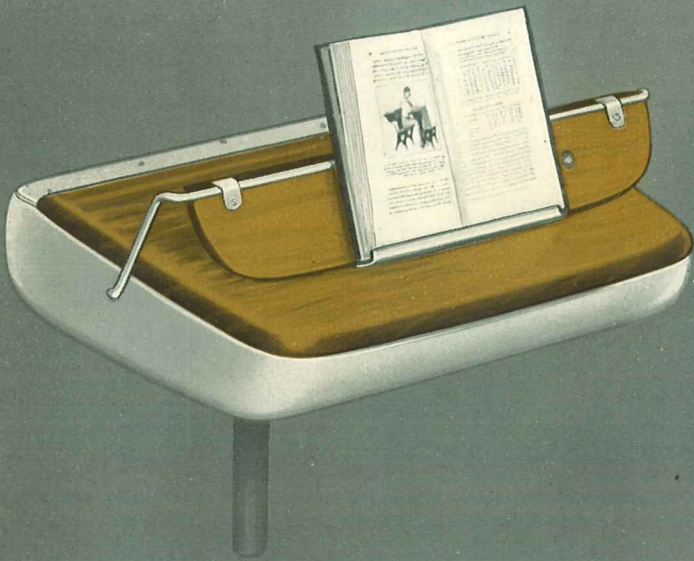
No. 333

NOW OFFERS AS STANDARD EQUIPMENT

sight-saving reading rest feature of unprecedented efficiency;
one-piece steel book-box of increased strength, capacity and beauty;
modernized frame design; foot-rests for better posture and comfort;
streamlined styling throughout which brings to classroom seating
functional beauty in the modern spirit of artistic design.



AMERICAN *Universal* CLASSROOM SEATING



Through many years the American Universal Desk has been the acknowledged leader in high grade school seating. It has had many an imitator but never an equal. Two-thirds of a million in daily use have established *universal satisfaction* in the American Universal Desk.

Continuous research, designing, engineering and testing, now enable us to offer important new features never before available in classroom seating, while retaining and improving every quality feature and use value of the former unit. In every detail the American Universal Desk is better than ever.

The simplified book-rest makes the American Universal the most effective sight-conservation unit ever developed — not only for the unfortunates in sight-saving classes — but to protect every pupil in every class from the dangers of eye-strain.

By a simple turning movement — no sliding parts, no catches or locking devices—the book-rest is placed wherever it will hold the book in the position most favorable to maximum page illumination, to best visual angle and focus, to the minimum of eye-strain with the maximum of comfort and good posture.

Variable heights and numerous combinations of slope and distance of the book are available by placing the writing surface at level or intermediate position.

Desk surface is available for writing or drawing and interior of book-box is accessible while book-rest is in use.

Drawing boards and large books may be securely supported in many positions.

Operation of the book-rest is easy, natural and quiet.

AMERICAN *Universal* CLASSROOM SEATING

Education costs too much if impaired vision is part of the price paid. Defective eye-sight is a cruel and needless tax to levy upon children. Young eyes must be protected from work conditions which unnecessarily aggravate the eye-burden of much reading. Architects, illuminating engineers, printers, medical and health departments, and special class facilities, are contributing to the program of eye-protection, but a vital part — the adapting of reading conditions to the limiting facts of human anatomy — rests upon the designers of classroom seating.

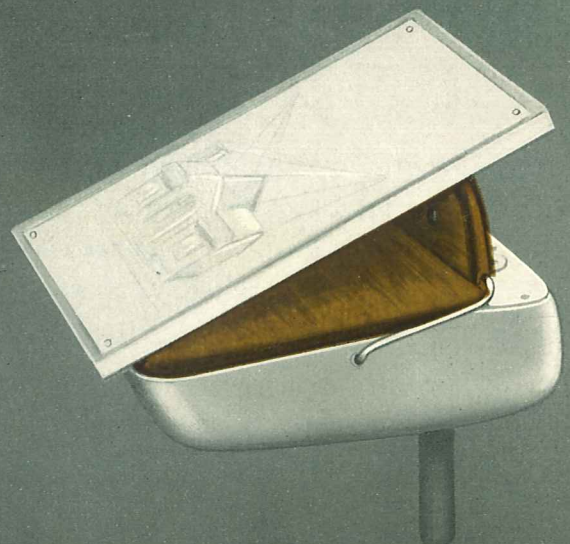
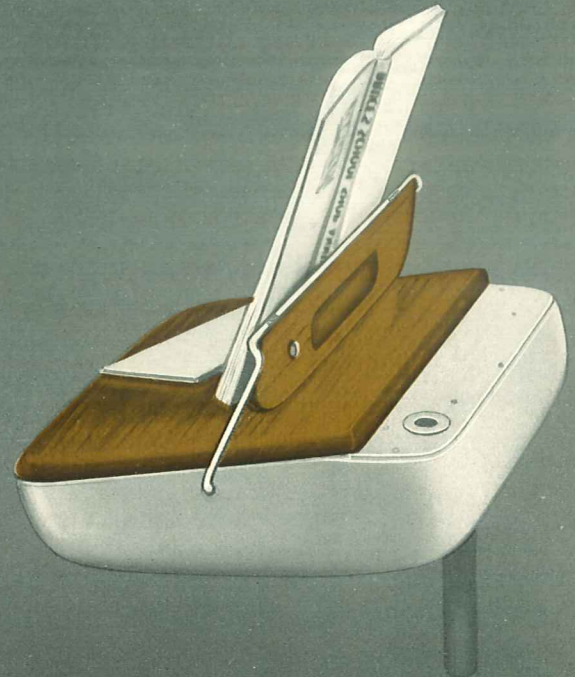
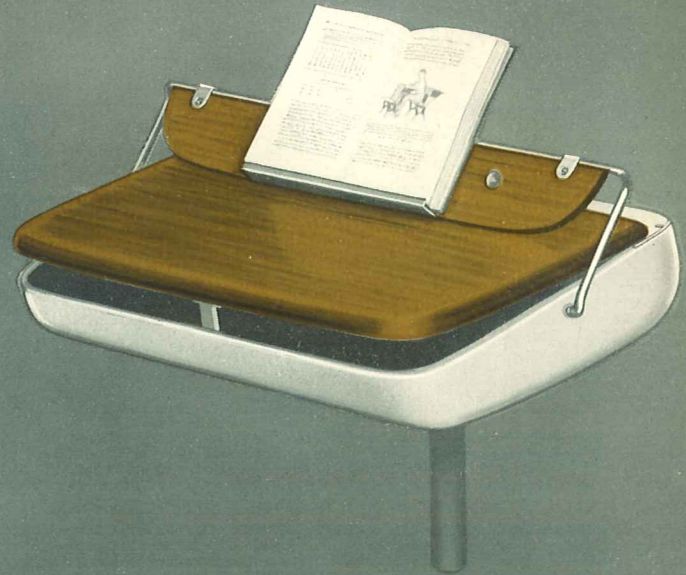
The rubber facing of the book-rest utilizes the weight of the book to hold it firmly in the position selected, protects the finish of the desk top, and serves as a guard to prevent marring the front of the desk.

The one-piece steel book-box has extra large capacity; elegant, smooth rounded lines and contact surfaces; and round-rolled edges.

A steel plate closes front portion of box while book-rest is in use. Ink-well is flush with this plate and an inconspicuous metal lined pen hole gives access to it when rest is closed.

Seat, back and desk-top are trimmed in attractive modern styling which accentuates comfort and functional values. The new style of pressed steel back-supports provides extra strength with a flowing contour and absence of visible screw heads.

The redesigned frame accents the streamlined beauty of the unit and provides foot-rests which add to comfort and postural effectiveness. Flutings minimize the marring of the metal finish from foot contacts.



AMERICAN Universal CLASSROOM SEATING

Outstanding Structural Features



Lifting Lid Book-Box. One-piece steel structure—an inverted “turret-top.” Round-rolled edges, smooth sanitary form and finish inside and out. Larger book capacity and more knee and leg room than ever before. Solid maple top — reinforced with steel splines — extra-durable lacquer finish — level and two sloped writing positions — rounded in-turning hinge line cannot catch or pinch any thing. Super-strength sector blade hinges attached direct from box sides to steel splines — completely housed — no exposed moving parts — no wood screws. Non-slam friction control is adjustable for permanently quiet action.

Universal Seat. Every detail of form and dimension is scientifically determined. Erect sitting is relaxed, more comfortable, more natural, less fatiguing than any other position in this seat. Self-adjusting lower back rail, and scoop with no rearward elevation fit every occupant. Seat swivels 45 degrees each way to silent cushioned stop. Swivel has large bearing area and adjustment means which insure permanently smooth and silent operation. Note the smooth lines and absence of screw heads in the extra strong back braces.

Universal Frame. Connecting member is one-piece heavy steel tubing. Foot-rest base fluted to minimize marring of finish. Solid steel glides $1\frac{1}{2}$ " diameter. Rubber shoes available. Unobtrusive, full rounded, never-failing height adjustment clamps. Maximum of strength, rigidity, stability—yet light in weight and easy to move.

Dimensions:

Size	Grades	Seat Height	Desk Height	Total ¹ Length	Desk ² to Back	Seat Depth
C	I-III	11½-15½"	23-28"	28⅝"	9 and 10"	10½"
B	II-VI	11½-15½"	23-28"	29⅝"	10 and 11"	12¼"
A ³	V-Adult	14 -18 "	26-31"	30⅝"	11 and 12½"	14"

¹ Seat swiveling requires 3-inch additional floor space.

² Both spacings provided for in seat construction.

³ Size A equipped with X seat (15½ x 17½") is available as Size AA.

★ ★ ★

Covered by patents and patents applied for.

★ ★ ★

The Universal Desk No. 334 is identical with the No. 333 shown on the preceding pages in all respects except the adjustable reading-rest features.

It has, in improved design, all the quality features and use values of the standard American Universal Desk of former years. The thousands of ardent admirers of the old No. 234 Universal are assured that its successor is inferior in no detail, superior in many.



UNIVERSAL STUDY-TOP DESK



No. 235 American Universal Desk with Study-Top

An eminently desirable correct-posture movable desk for use where book box is not required. A handy book-rack (5 x 11 inches) attached under the seat is available.

Strong—durable—convenient—light—economical—attractive—with abundant knee and leg room.

★ ★ ★

Recommended for high-school classrooms, study halls, and rooms provided with individual lockers.

Rigid study-top is trimmed with rounded edge metal apron.

★ ★ ★

Working surface is identical with that of the regular American Universal Desk, 17½ x 23½ inches, with correct posture writing slope of 2½ inches.

★ ★ ★

American Universal frame with height adjustments for seat and desk. American Universal posture seat with self-adjusting back-rail and swivel.

AMERICAN UNIVERSAL TUBULAR



No. 206—Non-Adjustable Study-Top Desk and Seat

Recommended for High Schools

Furnished in any size assortment.

Desks—at low edge—26, 27, 28, 29 or 30 inches.

Seats—at high point—15, 16, 17 or 18 inches.

Study-top desks, height 28 inches.

The tubular pedestal consists of a steel column, 2½" diameter, integrally locked to floor plate and desk flange by an interior heavy non-stretch bolt. An extremely strong and rigid construction which will doubtless outlast any school building and withstand any school usage.

★ ★ ★

The cast floor plate is specially designed to secure a close fitting floor contact as strong and permanent as the floor itself. Seat floor plate is 10" diameter and that for the desk is 12" diameter, offset to counteract leverage strain. Installation is simple and exceptionally durable.

★ ★ ★

An adjustable form of the No. 206 Tubular Pedestal is also available. This pedestal is equipped with the regular Universal adjustment clamp and reinforced steel desk flange.

★ ★ ★

Either the non-adjustable or the adjustable form of tubular desk pedestal is furnished with the Better-Sight, Lifting-Lid, or Open Front book-box, or with the regular or Sight-Saving Study-Top of the Universal line. Either may be used in connection with our No. 214 adjustable-swivel-pedestal seat base or with the No. 206 non-adjustable tubular pedestal seat. In these various combinations there is available a choice of practically every modern type of stationary school seating.

★ ★ ★

Woods are of selected hard maple, smooth, rounded and finished in school-furniture-brown, durably lacquered. Metal finished in oven baked taupe enamel of best quality.

★ ★ ★

*American Universal quality throughout.
Satisfaction guaranteed.*



No. 206 Adjustable Desk and No. 214 Seat

PEDESTAL DESK No. 206



No. 206 Non-Adjustable Tubular Pedestal Desk with No. 214 Adjustable Swivel Seat

A rigid, stationary, adjustable or non-adjustable desk and seat.

Janitor's joy—easy floor cleaning.

Abundant leg room—easy of ingress and egress.

★ ★ ★

Available with Lifting Lid or Open-Front book-box or with Study-Top as desired.
American Universal correct posture adjustable, swivel seat with self-adjusting back-rail.

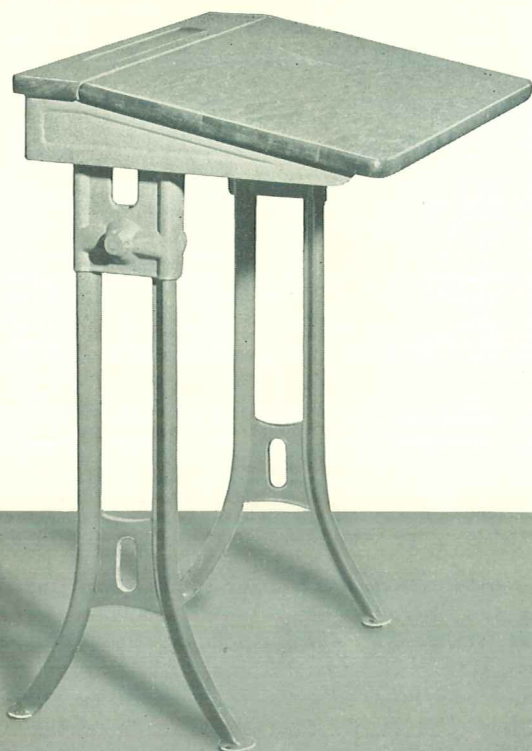
★ ★ ★

Gives classrooms a particularly neat and clear appearance.

★ ★ ★

A durable, economical unit of American Universal quality.

AMERICAN UNIVERSAL



No. 214 Study-Top Desk
For High-School Classroom and Study-Hall

No book storage at desk.
Extra knee and leg room.

Study-top trimmed with neat round-edged apron.

Used with No. 214 adjustable pedestal seat.

Adjustments provide adequate size assortments.

Desk height (near edge) 24 to 28 inches.

Strong—durable—economical—convenient—popular.

★ ★ ★

Desk Standards of No. 214 are formed of our specially designed triangular steel tubing, rolled in our own machines, with rigidly braced brackets under the desk-top, and a particularly strong and secure adjustment clamping device. The sanitary foot construction, continuous with the tubular legs, affords a spring tension floor attachment which prevents screws working loose. Built to withstand severest school usage indefinitely.

★ ★ ★

Dimensions No. 214 Desk and Seat

SIZE	TOP AREA	HEIGHT ADJUSTMENT RANGE		TOTAL LENGTH
		DESK; NEAR EDGE	SEAT; HIGH POINT	INSTALLED
A	17½ x 23½"	24—28"	14 —17½"	33½"
B	17½ x 23½"	21—25"	12½—16½"	32"
C	17½ x 23½"	20—24"	11 —14"	30½"



No. 214-R Typewriter Desk
Size AA with Typist Seat

Best for the Typewriter Room.

Strong, sturdy, steady, safe.

Quiet, convenient, compact, economical.

Saves floor space and janitor work.

Typewriters fastened to this desk are safe.

Eliminates bumping, scraping, tipping and breaking of furniture or machines.

Round top back gives extra comfort and elbow room.

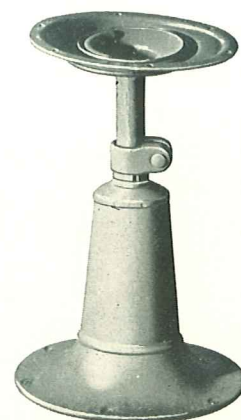
Loose furniture is out of place in the typing room.

Height adjustment, 25½ to 29½ inches.

Top sizes: A, 16 x 23½ inches; AA, 18 x 30 inches.

★ ★ ★

Seat Pedestal is an oval shaped conical design, engineered to resist severest strains. Dirt-proof floor contact has spring tension screw hold. Cone sections are of heavy gauge steel, mechanically engaged and permanently welded. Universal never-failing height adjustment clamp. Cushioned swivel movement is readily adjustable to insure permanent smoothness.



STATIONARY DESK and SEAT



Stationary Adjustable No. 214

Showing *Universal Open-Front Book-Box*. Top, $17\frac{1}{2}$ inches x $23\frac{1}{2}$ inches.
Universal Lifting-Lid boxes optional.

Pedestal seat — adjustable — swivel — correct posture.

Embodies *Universal* posture, comfort, sanitary and structural superiority.

★ ★ ★

Very popular and widely used for high schools.

★ ★ ★

Close-fitting, sanitary, spring tension floor attachments are permanent.

Three overlapping sizes adjustable to meet every need.

Height adjustments simple, sure and lasting.

★ ★ ★

Seat swivel movement of ninety degrees is silent, cushioned and permanently smooth.

★ ★ ★

American Universal Quality Throughout—Satisfactory Service Guaranteed.

AMERICAN UNIVERSAL

Stationary



No. 217, Size X (Top, 21 x 26 in.)
with No. 214 Adjustable Seat

The distinctive requirements of bookkeeping and other classes of the Commercial Department are (a) large box capacity for the accommodation of numerous books, blanks, forms and stationery, (b) extra large working surface for using these forms, (c) a handy place to lay some of them aside temporarily, (d) a reduced slope of desk-top to prevent forms slipping off, and (e) all in the most compact space practicable.

No. 217 Desks are specially designed to meet these requirements most effectively and economically.



No. 214 Typewriter Desk

Our triangular steel tubing construction has been fully tested through more than a quarter of a century on millions of school desks. It is almost limitless in strength, durability and sturdy rigidity. The sanitary foot construction is continuous with the tubing and affords a live tension floor contact which prevents floor screws working loose.

★ ★ ★

The lifting-lid boxes are equipped with adjustable-tension friction hinges, providing permanently silent operation. Steel hinge sector blades attach directly from box ends to steel splines of lid, with no wood screws, practically eliminating warping or splitting of top or breaking of hinges or hinge attachment. Hinges completely housed. In-rounded hinge line prevents pinching of papers, pencils, etc.

★ ★ ★

Dimensions—No. 217

SIZE	XX	X
Desk Top.....	22 x 30"	21 x 26"
Height Range of Top, High Point.....	28 $\frac{3}{4}$ -32 $\frac{3}{4}$ "	28 $\frac{3}{4}$ -32 $\frac{3}{4}$ "
Height Range of Chair.....	14-17 $\frac{1}{2}$ "	14-17 $\frac{1}{2}$ "
Height Range of Settee.....	15-17"	15-17"
Recommended Spacing Back to Back with shelves.....	40"	39"

★ ★ ★

Wood parts of selected hard maple, well rounded and smoothed, school-furniture-brown color, with highest quality, extra durable lacquer finish.

★ ★ ★

For The Typing Room

Universal Typewriter Desk No. 214. Adjustable. The most compact, convenient, rigid, durable and economical desk for typewriting classes. (See page 12 for further description.)

COMMERCIAL TYPE DESKS

Adjustable — No. 217



The standard for
Commercial Classes

in

Universities
Business Colleges
High Schools

No. 217½, Size XX (top, 22 x 30 inches) with Settee

Extra Large working surface and book storage facilities.

Lifting-lid box with Universal adjustable-tension non-slam friction hinges. Top equipped with broad pen trough, red and black ink wells, and *optional book shelf* 7½ x 24 in., 9 in. high.

★ ★ ★

Supplied with either No. 214 adjustable pedestal swivel seat, American Universal posture and comfort design, or with adjustable settee as shown in figure above.

Settee enables instructor to sit beside student while examining work and permits double sitting for departmental assemblies.

★ ★ ★

Standards of triangular steel tubing. Cross-braced desk brackets of great strength and rigidity. Permanently secure adjustment locking device.

★ ★ ★

Maximum working facilities in minimum floor space.

Maximum efficiency and convenience with minimum janitor service or upkeep expense.

Strong, durable, attractive, sanitary and economical.

★ ★ ★

American Universal Quality—The Best—Satisfactory Service Guaranteed.

AMERICAN UNIVERSAL



No. 271 Universal Posture Seat
Self-Adjusting Back Rail

This is the standard American Universal correct-posture seat and back with self-adjusting lower back-rail. All selected hard maple, thoroughly rounded and smoothed and finished with extra durable lacquer. Stocked in standard school-furniture-brown.



No. 271-R Upholstered Posture Back
Round Comfort Form

This round-top correct-posture upholstered pad back is particularly comfortable and attractive in appearance. The form permits free elbow movement for working on the tablet-arm. Rear of pad is smooth birch ply-wood. Face is upholstered in form-fit curvature with Du Pont Cavalon.

Seats: Size X ($15\frac{1}{2} \times 17$ inches) or A (14×16 inches) 17 inches high.

★ ★ ★

Tablet arm seats attached to the floor are subjected to severe leverage strains in college and university lecture rooms. These pedestal seats are specially designed, constructed and tested to meet such conditions.

★ ★ ★

The handy round-edged pressed-steel book-rack (5×11 inches) is optional on all styles of pedestal tablet-arm seats.

PEDESTAL TABLET ARM SEATS



No. 272 University Type
7-Ply Back



No. 272-C University Type
Upholstered Back

These full-length theatre chair backs give an extremely dignified and handsome appearance to the finest university lecture rooms. They are particularly desirable when seats are installed on risers, to protect the occupant from the feet of those behind. Furnished, as shown, with rounded edge 7-ply, $\frac{3}{4}$ -inch beautiful birch grain face, or with upholstered panel.

Seats: Size X, 15 $\frac{1}{2}$ x 17 inches, 17 inches high

★ ★ ★

These heavy duty steel pedestals may be considered as built-in equipment which will probably withstand the hard usage of college and university lecture rooms as long as the buildings themselves.

Large oval floor base (9 x 11 $\frac{1}{2}$ inches) fits close to floor with a spring tension which prevents screws working loose. The seat flange has similar spring tension contact. Screws are staggered to prevent any two in the same grain line. Parts are of die-formed cold-rolled steel, mechanically interlocked and integrally welded.

Arm supports are smooth, heavy, tubular-steel columns with top and bottom brackets of die-formed steel, shaped to provide triangular bracing both longitudinally and laterally, with brackets encircling the columns and solidly welded. The lower bracket is both screwed and bolted to the solid seat. Rear end of arm attached by triangular braced bracket. An extremely strong, rigid and durable construction.

Back-braces are built to resist severe strains. Heavily reinforced corner bracing, firmly screwed to seat in three directions.

★ ★ ★

American Universal Quality Throughout

AMERICAN UNIVERSAL



No. 276 University Type
7-Ply Back



No. 274-R Upholstered Back
Adjustable or Non-adjustable

An Exceptionally Attractive, Comfortable

Handsome · Durable · Light Weight ·

The solid back type is preferred in some universities. It presents an impressive and dignified appearance and prevents using the rear of the seat as a foot rest.

We can supply (with Size X seat) our 7-ply deep curve, and upholstered panel styles. Rear of back is finely finished, smooth birch face ply.

Adjustable or non-adjustable base.

Satisfactory service guaranteed.

This round-top upholstered form provides a genuinely correct-posture chair of surprising comfort and attractiveness. Back has a smooth ply-wood rear face; front soft upholstered in DuPont Cavalon.

The rounded form of the back permits of free arm movement. The unit is fine enough for any office and is particularly convenient and popular for secretarial use. Makes an outstandingly beautiful lecture room installation. Light, easily moved on steel gliders, or casters if desired. Minimizes fatigue and eye-strain.

An astonishingly fine product for the price. Unsurpassed in use values at any price.

American Universal Tablet-Arm Chairs have a distinctive slope of chair and tablet-arm scientifically designed for the comfort and good posture of the users.

Handy Pressed-Steel Book-Racks (5 x 11 inches) as shown on No. 273 available as extras on all styles.

MOVABLE TABLET-ARM SEATS



Non-Adjustable No. 273



Adjustable No. 274

and Economical Line of Tablet-Arm Chairs

Strong • Finely Finished • Correct Posture

Tubular steel column supported by Universal die-formed steel legs, securely and neatly welded, with solid steel glides (1½ in. diameter) mechanically fastened and brazed to prevent loosening. Large bearing area of seat flange prevents loosening or splitting of seat.

Smooth tubular tablet-arm support has no edges of contact with clothing. Strong encircling brackets support arm rigidly; bolted and screwed to seat; bolted and braced to back support. Heavy steel back braces bossed and reinforced to provide unusual strength and pleasing appearance.

Steel parts finished in oven-baked taupe enamel.

Seat height adjustable 14 to 18 inches. American Universal never-failing adjustment clamp.

Woods of selected northern hard maple, full rounded corners and edges, smooth sanded, school-furniture-brown finish, extra-durable lacquer. Back slats rounded, lower slat self-adjusting to fit the human form in constantly varying positions and sizes. Seat is the distinctive Universal correct posture form, with no ridge rearward, encouraging fullest use of back support, discouraging slouching.

	SEAT HEIGHT	WIDTH	DEPTH	ARM LENGTH	WIDTH
Size A.....	17 in. or Adjustable	16 in.	14 in.	24 in.	12 in.
Size X.....	17 in. or Adjustable	17 in.	15½ in.	24 in.	12 in.

All styles have solid steel, smooth-face glides. May be equipped with casters or rubber shoes as required.

AMERICAN UNIVERSAL



No. 283 17 inches high
Seat 14 x 16 inches
For Teacher, Classroom, Library and
General Utility Purposes

No. 283 15 inches high
Seat 12 x 14 inches
For Intermediate Grades and
Kindergarten Teachers

No. 283 11 inches high
Seat 10½ x 12 inches
For Primary Grades

The American Universal style and quality made available in movable chairs of eight sizes, for general classroom, teachers' and all-purpose uses. Stock sizes, 11, 13, 15 and 17 inch seat height.

Each is a true correct-posture chair, with the special form of the Universal seat, the self-adjusting lower back rail and carefully determined slopes, curvatures and dimensions.

Strong to resist all school usage indefinitely, rounded corners and edges to avoid discomforts and all tearing

hazards, durably finished to maintain the original attractive appearance for a surprisingly long time. Large diameter solid steel gliders to slide easily and quietly and to avoid denting linoleum or scratching the finest floors. (Rubber shoes available, too.)

A handy, handsome line of chairs worthy of the finest classrooms and priced within reach of the average. Finished to harmonize with any surroundings and particularly with American Universal tables or other American Universal seating.

★ ★ ★

This company's Research Department has devoted years to studies of anatomy and hygiene as related to problems of sitting and the design of seating.

Its conclusions are not mere sales propaganda but are authoritative scientific principles. These principles determine the dimensions and design of every seat unit to which this company applies the term *Posture*.

American Seating Company *posture chairs* are positively conducive to the maintenance of correct posture and to the minimizing of sitting fatigue.

POSTURE CHAIRS



No. 299-R Typist Style

Seat Height, (without casters) Non-Adjustable, 17 inches; Adjustable, 14 to 18 inches
Seat Size, 15½ x 17 inches

A very comfortable, fatigue-minimizing, correct-posture chair for desk use, typists and all seated workers. Extensively used in many large offices — including our own.

The unique, rounded back form provides support just where it does the most good and permits complete freedom of arm and elbow movement. Back is upholstered in best imitation leather with smooth birch ply rear face.

Attractive in appearance, well and durably finished, nothing to get loose.

Strong, light, handy, convenient and low priced.

Furnished with X size seat; adjustable height or non-adjustable. *Casters add 2¼ inches to seat height.*



No. 297 Teacher's Style

This is a low-priced chair but at many times the price it would be cheaper than the teacher energy it may conserve.

It is a correct-posture chair, making erect sitting easy, natural and restful, minimizing fatigue. It is an attractive, dignified unit, and yet light, easily handled and convenient. The well-rounded back support, upholstered in durable imitation leather, is a soothing comfort to any teacher's back. Rear face of back is a smooth finished birch ply.

Seat is American Universal design.

Strong base unit of steel tubing and die formed steel legs with solid steel gliders. Equipped with rubber shoes or with casters if desired. Height adjustable or non-adjustable.

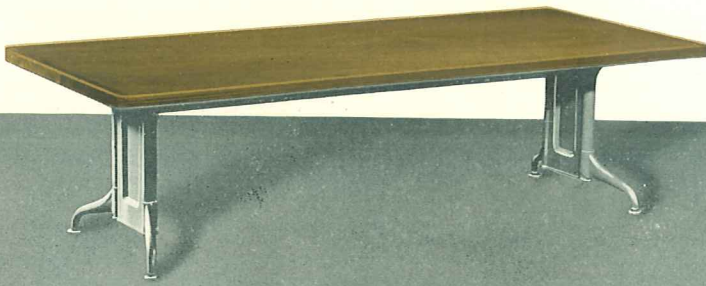
Fine maple wood in school-furniture-brown and metal in over-baked taupe enamel harmonize with any American Universal seating.

★ ★ ★

The term "posture chair" is inaccurately applied to many products having no rightful claim to this distinction. Mere short seats, low backs, or back supports requiring individual adjustment do not necessarily contribute to good posture or reduced fatigue and *may do quite the contrary.*

Simplicity characterizes American Seating posture features.

AMERICAN UNIVERSAL



30 x 72 inches. 20 inches high
Kindergarten Project Table



30 x 72 inches. 24 1/2 inches high
Elementary Library and Project Table

Strength and rigidity attained through bracket attachment of standards and wide "backbone" bracing at center, which are invisible in illustrations and in use.

The splendid values in this line of Universal Panel Standard Tables are possible only through our unique equipment and quantity production of standard sizes.

★ ★ ★

Thirty Sizes Carried in Stock

SIZE OF TOP	HEIGHT				
	20"	22"	24 1/2"	27"	29"
24 x 48"	20"	22"	24 1/2"	27"	29"
24 x 66"	20"	22"	24 1/2"	27"	29"
30 x 60"	20"	22"	24 1/2"	27"	29"
30 x 72"	20"	22"	24 1/2"	27"	29"
36 x 60"	20"	22"	24 1/2"	27"	29"
36 x 72"	20"	22"	24 1/2"	27"	29"

★ ★ ★

Strong ply-wood book compartments optional on all sizes. Used on one or both sides.

★ ★ ★

24 x 66 inches. 27 inches high
Sewing and Grade Work Table
Ideal Kindergarten Table in 20-inch Height



24 x 48 inches. 29 inches high
Teacher's and General Purpose Table
Two-pupil Classroom Use



PANEL STANDARD TABLES



Library or Board Room Table — 36 x 72 inches

All-purpose Tables of Outstanding Beauty and Serviceability.

In the fine furniture class at school budget prices.

★ ★ ★

These striking tables are characterized by attractive grain effects of the rotary-cut birch surface, durably finished with heavy coats of the best quality lacquer. The heavy casein-glued cored ply construction, protected and reinforced by perfectly joined and mortised maple framing, has an appearance equal to that of very expensive solid wood, and an incomparably greater resistance to warping, checking, splitting or other deterioration.

No corner legs, stretchers, or other structural parts interfering with knees and limbs at any part of sides or ends. No marring or splintering of wood legs or framing. No weak or loosening glue joints. Unaffected by temperature. Graceful, pressed-steel standards of surplus strength in tubular design; die-formed tubular legs and solid steel glides of large diameter. Rubber shoes available.

★ ★ ★

Maximum strength, rigidity and satisfactory service.

American Universal construction and quality.

In these tables we offer remarkable values and guaranteed satisfaction.

For every purpose from Kindergarten to Office or Library.

AMERICAN PROGRESSIVE



Progressive Table No. 128, Lifting Lid



Progressive Table No. 128, Reading Top

★ ★ ★

No. 250 Progressive Chair

A new and highly distinctive style chair. Strikingly attractive modern lines and American Universal quality.

Chair frame is a continuous bent steel tubing structure, securely welded at joining points and engineered to resist strains in every direction. Provides a strength, rigidity and durability unique in bent tube chair construction, and specially designed to withstand school uses and abuses. Has broad, non-tipping floor base. Solid steel Universal feet. Oven-baked taupe enamel.

Five-ply formed wood seat is securely riveted to frame and the seven-ply deep-curved comfort shaped back support is pivoted with limited self-adjusting movement to rear frame.

Made in 11 in., 13 in., 15 in. and 17 in. heights.

★ ★ ★



No. 250 Progressive Chair

Strong • Durable • Sanitary • Light • Durably Finished

CHAIRS, TABLES and DESKS

Unit classroom tables of remarkably beautiful modern design. Top (18 x 24") of fine finished hard maple with well rounded corners and edges. The embossed steel end and rear panels combine with the oval shaped tubing of the standards and the graceful Universal legs to make an exceptionally pleasing and dignified piece of classroom furniture.

Universal desk flanges connect box with standards, insuring strength, rigidity and durability beyond all requirements. Under side of box is smooth and free of structural projections, screw heads are countersunk and all edges are rounded. No scratching or tearing hazards. Excessive movement of chairs, necessitated by four-post tables, is largely eliminated.

★ ★ ★

Lifting-lid type has American Universal friction hinge, non-slam, invisible on closed box.

★ ★ ★

Reading-top type locks at five slopes. Released at a touch. A sight-saving table unit.

★ ★ ★

Extra large book-box capacity.

★ ★ ★

Stock heights: 20", 22", 24", 26" and 28".



Progressive Table No. 128



Progressive Desk No. 92

Universal Desk book-boxes, open front or lifting lid, and study-top, as on Nos. 206, 214 and 235, are also available with the oval tubular standards described above.

This provides in movable table form the postural and sight protective advantages of the sloping working surface of the Universal Desk.

Heights (at near edge)
No. 90: 19½", 21½", 23½", 25½" and 27½";
No. 92: 27". Desk slope 21½".



Progressive Desk No. 90

AMERICAN UNIVERSAL

Tubular Type Classroom Tables



Tubular Unit Table (29 inches high)
Ply-wood Top 18 x 24 inches



Tubular Dual Table (24 inches high)
Maple Frame, Cored Ply Top 20 x 48 inches

Individual Table

This is a remarkable value for all small-table purposes. *For individual pupil use in classrooms of all grades, occasional use by lecturers, teachers, and others; in offices, special rooms, corridors and on the platform.*

An especially light, handy, sanitary and attractive unit table of superabundant strength, rigidity and durability.

The Universal type tubular standards are inserted through the U-shaped steel brackets and mechanically braced and welded. The rigid attachment of brackets to the table top is reinforced by a wood stretcher from bracket to bracket on the far side. Metal finished in oven-baked taupe enamel.

The five-ply book shelf is an optional accessory; not a structural member.

The seven-ply, $\frac{7}{8}$ -inch top, 18 x 24 inches, is plied in our own factory. Best obtainable hardwood plies are cemented with water-proof casein glue. Edges and corners rounded to prevent chipping. Will not split or peel. Attractively grained selected birch face plies. Stained school-furniture-brown and finished with extra durable lacquer which excels in performance tests.

No corner legs to mar or splinter. No glue joints to work loose. No splitting, checking or opening of seam joints. Will outlast and stand more hard usage without deterioration than any wood frame construction at any price.

Two-Pupil Table

For double seating in classroom use, a desirable substitute for the typical teacher's desk, and an attractive table for general purposes.

Has the cored ply-wood, maple framed top which is used on the panel standard type of Universal tables with the tubular type standards.

Top 20 x 48 inches, $1\frac{1}{2}$ inches thick. Made in five heights.

Two compartment book shelf is optional.

An incomparable value in the low price range.

* * *

Heights for Every Grade

HEIGHTS	TOP SIZES	
	UNIT TYPE	DUAL TYPE
20"	18 x 24"	20 x 48"
22"	18 x 24"	20 x 48"
24 $\frac{1}{2}$ "	18 x 24"	20 x 48"
27"	18 x 24"	20 x 48"
29"	18 x 24"	20 x 48"

*For Chairs See — American Universal Posture Chair No. 283 — American Envoy Posture Chair No. 368.
American Progressive Tubular Chair No. 250.*

* * *

American Universal quality — Satisfaction guaranteed.

AMERICAN UNIVERSAL

Orthopedic Attachments

We particularly recommend the *New Universal Better-Sight Desk* box for use with these leg attachments, though any of the Universal desk boxes or tops may be used.

The seat is the American Universal correct-posture seat with swivel and self-adjusting back-rail. Upholstered pad forms are available.

A circular, "For the Comfort of the Crippled Child," suggests special adaptations of back and desk for individual cases.

These special attachments should be used only under the direction of or with the approval of the orthopedist or nurse in charge.

No. 303 American Sight-Saving Book Easel

Every child with vision below normal should at least have this simple means of conserving eye-sight, as an aid in keeping up with his grade and keeping out of sight-saving classes.

An inexpensive adjustable book easel readily attached to any desk or table, level or sloped.

A boon for the afflicted. An economy for the school. A convenience for every student and reader.



An all metal swinging device which holds any book at an angle of 60° at all usable positions over the working area. Turns to the most effective light angle. Swings to any position at a touch.

Cannot be projected beyond desk area in any direction.

Silent. Strong. Durable. No slides or catches. Nothing to get out of order. Does not interfere with writing surface. A valuable accessory for any study desk or table.

Any desk can now be made a sight-saving desk.



It is the *American Universal Ideal* that our seating products shall be better than merely physically harmless. They must contribute positively to forming habits of good posture and to minimizing of eye-strain.

With these special attachments, we go farther and offer a contribution toward the correction of physical infirmities and the alleviation of suffering.

The purpose of these orthopedic attachments is twofold: first, to provide a secure and comfortable support for the diseased or injured limbs; second, to make possible erect and wholesome sitting posture for children suffering from leg or spinal infirmities.

The double foot-support attaches to the tubular support of the Universal Desk by means of a yoke provided with a set screw bolt for height adjustment. A shaped wood foot-rest, adjustable for both length and slope, is provided on either side of the support. On each rest there is a removable sliding stirrup, adjusted to provide a resisting surface against which the sole of the foot may rest.

The separate leg supports may be attached under either or both sides of the seat as required. A shaped rest supports the calf of the leg, adjusts to the proper distance from the seat, and is elevated to the angle desired by a downward pressure on a lever operated by the child from the seat. With the aid of the seat swivel, the child elevates the leg and turns it into the foot-rest support without assistance as shown in the cut above. When not in use the leg-rest is turned under the seat.

Announcing **AMERICAN**
Envoy
CLASSROOM SEATING

Chairs, Desks and Tablet-Arm Chairs

*Constructed on a monosteel principle new to the seating industry.
Combining beauty, posture, comfort, lightness, strength and economy in a
degree never before attainable.*



AMERICAN *Envoy* CLASSROOM SEATING

Appearance. The vigorous, sweeping curves of the *American Envoy* line; the smooth rounded surfaces, the clean-cut functional beauty, were developed in collaboration with outstanding modern industrial designers. The story is told without words.

Posture and Comfort. Unhampered by the structural limitations of wood or of metal bars or strips, a higher perfection in postural design has been realized.

Monosteel side frames provide greatest strength at points of greatest strain. Cross members are joined to side frames by series of multiple welds. Endless troubles arising from welds and rivets are eliminated.

Rigidity of the new construction eliminates all squeaks and rattles by eliminating the joints which cause them.

Great increase of strength, resistance to strains in every direction, is attained with important **decrease in weight**, and greater ease of sliding, lifting and handling.

Self-adjusting lower back-rails on every unit with a new, noiseless spring pivot device.

All edges of seat woods are fully protected from battering and splintering by the smooth steel frame which extends beyond sides and front edge. Rear edge of seat follows the round of the back rails and is housed in the steel frame.

Silent steel gliders, rubber insulated, are standard on all units and reduce the noise of sliding or banging to an absolute minimum on any type of floor.

American ENVOY Posture Chairs

No. 368

These truly beautiful classroom chairs are remarkably strong, light and easy to handle. They are particularly comfortable for regular use with tables and convenient for grouping and supplementary activities.

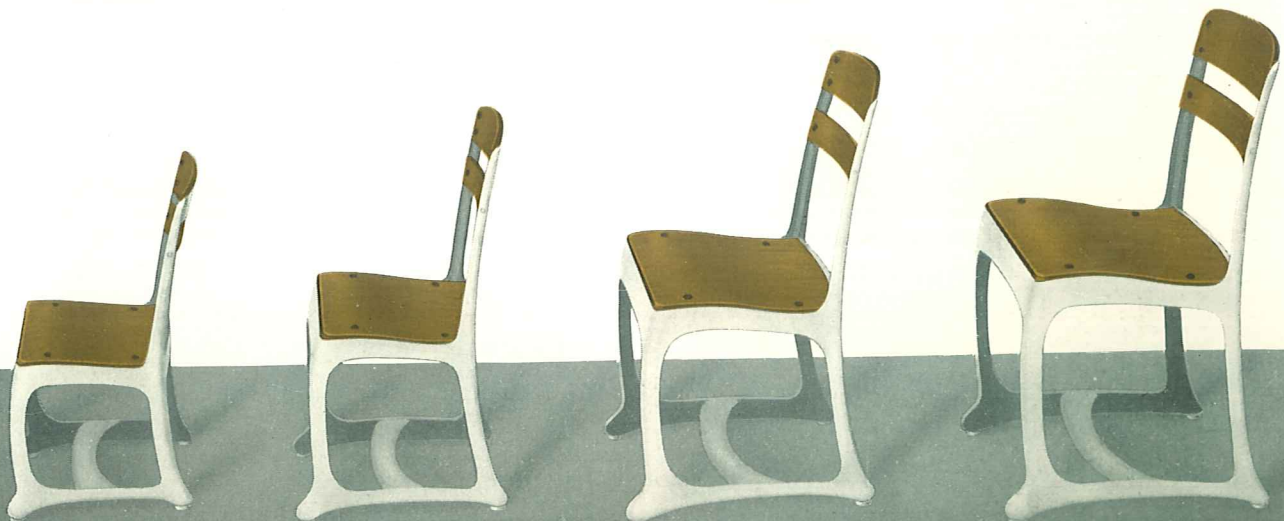
Silent rubber-cushioned glides and self-adjusting lower backrails.

11-inch

13-inch

15-inch

17-inch



AMERICAN **Envoy** CLASSROOM SEATING

The American Envoy line has withstood, in our laboratory, tests of durability equivalent to long years of severest classroom usage. We protect customers from every doubt and uncertainty by our *guarantee of satisfaction*. You assume no risks as to use values. **Our** stake in the success of this line means that it *must* satisfy you.

A special steel is used which withstands the forming operations and severest usage without fracture.

All plywood is made in our own plant by the best methods and equipment known for the particular requirements. It combines strength, and lightness comparable to that of the steel itself, and with the special steel affords units of ideal structural resilience and durability. The protection of all edges from chipping or battering eliminates the only valid objection to high quality plywood.

Our own American lacquer finish has been proved by countless tests and years of experience to be unequalled in its resistance to every kind of school use and abuse. All units of the **Envoy** line are finished in "school furniture brown" lacquer and oven-baked taupe enamel.

★ ★ ★

American Envoy Classroom Seating covered by patents and patents applied for.

American ENVOY Tablet-Arm Chairs

We believe these two units offer unapproachable values in the low-priced tablet-arm chair field.

New perfection in posture and comfort qualities are attained by the deep curved back rails, the self-adjusting lower rail with silent pivoting device, the redesigned seat form and the precise placing of the tablet-arm.

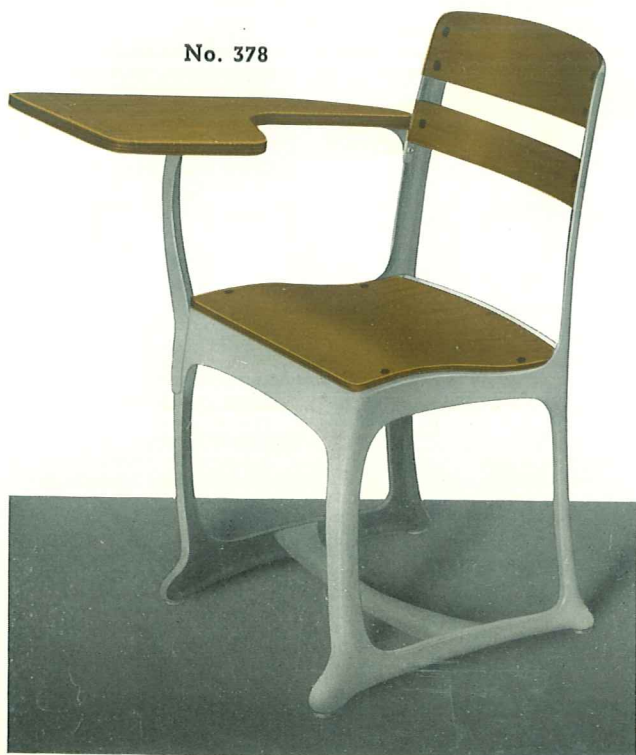
The rigid formed-steel arm support, securely attached to the frame, presents a smooth rounded contact surface.

Silent, rubber cushioned glides on all units.

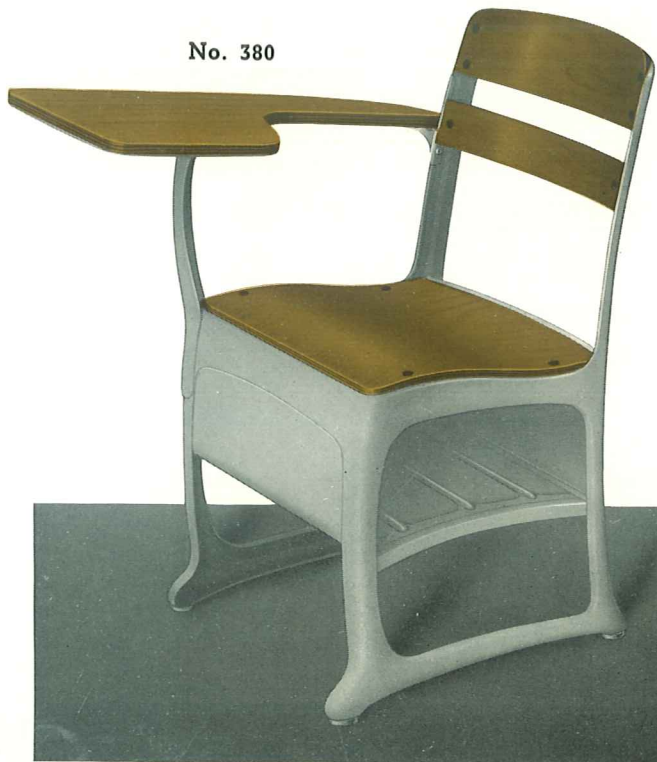
Made only in 17-inch seat heights. Tablet-arms 24 x 12 inches.

No. 380 provides a sanitary, roomy book cabinet. Book drawer, as shown in No. 362 Envoy Desk, is optional.

No. 378



No. 380



AMERICAN *Envoy* CLASSROOM SEATING

Exit Angle-Iron — Though we have made and sold them by hundreds of thousands and have invariably made them the best of their kind, this Company has never ceased to feel that, because of inherent unsightliness and structural limitations, the “angle-iron” type of seating units are unworthy of modern educational progress. After years of experiment with many types of construction, our Research, Engineering and Testing Departments have perfected a new kind of unit so superior in every respect to “angle-iron” construction that we are no longer justified in retaining the latter in our lines. We invite attention to the striking contrasts.

American ENVOY Desk

No. 362

We unreservedly present this new classroom desk as the ***strongest, lightest, quietest, most durable, most comfortable*** and ***most beautiful*** of its type ever built.

The American Universal tubular support and never-failing clamp provide quick and practical adjustment of desk top by the loosening of a single bolt. Heavy-gauge front stile and special method of attaching tubular support afford unequalled strength and rigidity.

All feet equipped with rubber cushioned hard steel gliders. Book drawer runs silently between fibre bearings and wood guide, with rubber cushioned stops. Surprisingly quiet.

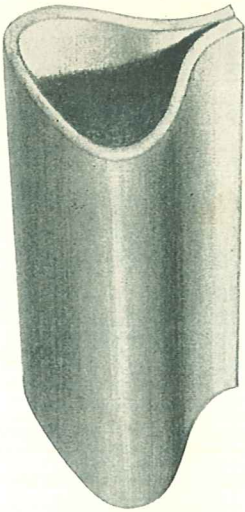
Large capacity book drawer is optional. If omitted, desk provides open book cabinet as shown in No. 380 American Envoy Tablet-Arm Chair.

Exceptionally effective for comfort and good posture, are the deep-curved back rails with self-adjusting lower rail mounted on silent spring-tension pivots.

Made in three sizes, perfectly proportioned in all dimensions to 17-inch, 15-inch, and 13-inch seat heights.



AMERICAN TUBULAR STEEL



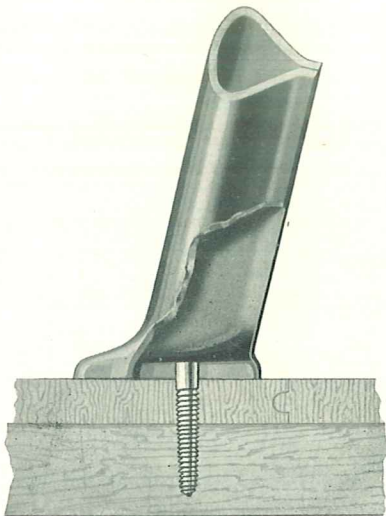
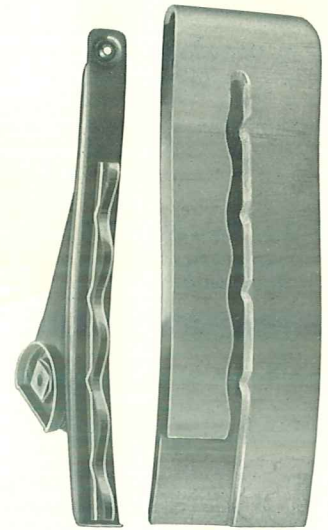
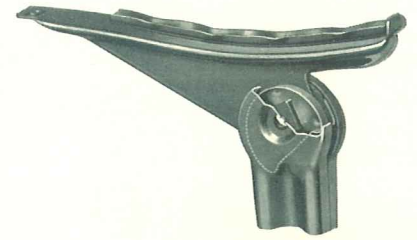
Made from heavy-gauge rolled strip steel formed into triangular tubing.

Sanitary foot formed directly from triangular tubing provides a spring tension which prevents floor screws working loose.

The noiseless and boltless seat hinge acts on a simple eccentric principle, non-wearing, and is permanently riveted in construction. Seat is close folding.

Woods are attached by a continuous serpentine dovetail method. A serpentine steel member firmly welded to the frame provides a permanent live tension grip through practically the entire width of desk top, back and seat.

All metal parts are of sanitary design, smooth surface, taupe color hard-baked enamel.



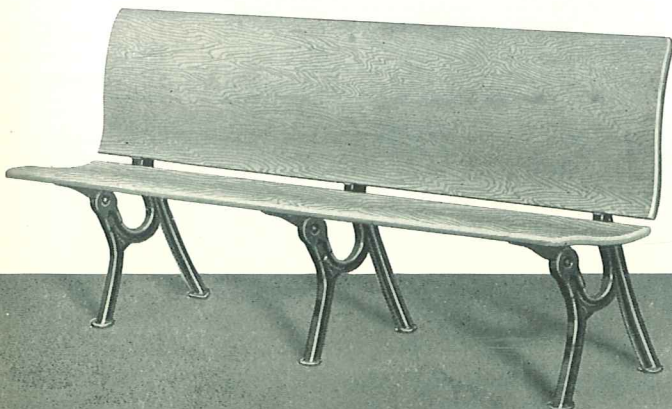
★ ★

Dimensions: No. 101

Sizes.....	No. 1	No. 2	No. 3	No. 4	No. 5
Length of Top, Single Desk.....	23½"	23½"	20½"	20½"	17½"
Width of Top.....	16"	16"	14"	14"	12"
Height of Top, Near Edge.....	30"	28¼"	26½"	24¾"	23"
Height of Seat, High Point.....	17¼"	16"	14¾"	13½"	12¼"
Recommended Spacing					
Back to Back.....	30-31"	30-31"	27-28"	27-28"	24-25"

★ ★ ★

American Tubular Steel Recitation Seats



American Tubular Steel Recitation Seats are superior in strength and therefore more economical than similar equipment with cast metal or ordinary steel supports.

Standards—Triangular shaped steel tubing electrically welded. Same construction as No. 101 Desk.

Finish of Steel Parts—Taupe enamel—baked on at high temperature.

Woods—Hard maple, school-furniture-brown finish. Made only in 6-foot length No. 2 size.

Tablet Arms—Available if wanted, but when used the seat cannot be folded.

COMBINATION DESK No. 101



No. 101 American Tubular Steel Combination Desk

Millions in satisfactory use attest the supremacy of this great leader.

★ ★ ★

A desk that has made school furniture history.

Known from Coast to Coast and Overseas

You can see the reason by inspecting installations in your vicinity.

Without a peer among combination desks in economy, durability, rigidity, sanitary design
and surface, and graceful lines.

★ ★ ★

Wood is selected, clear, close-grained northern hard maple; kiln conditioned to precise standard; perfectly glue-joined; smooth finished with well rounded corners and edges; school-furniture-brown stained with a lacquer finish that stands first in all comparative performance tests.

When properly installed, No. 101 becomes a built-in feature which will outlast the building. The first installations, after a quarter-century of service, are still in perfect condition except for surface finish.

Seat hinges are still silent, smooth acting and strong.

★ ★ ★

Comfortable, attractive, convenient, fine-finished. American Seating guarantee of satisfactory service.

AMERICAN TUBULAR

THE FOLDING FORTIES *Many Styles for Many Uses*



No. 47 Chrome

Unequalled for

Real Comfort — Actually a Posture Folding Chair

Strength Stability Durability

Variety of Styles Diversified Usefulness

Quality of Finish Silence in Use and in Handling

Freedom from Catching or Pinching Hazards

Graceful, Dignified Appearance Smooth, Clean Lines

American Tubular Steel Folding Chairs are *made to serve*. They were designed and developed to meet every ideal of what a folding chair should be, regardless of cost or of the

engineering difficulties encountered. The low price at which they are offered is incidental to thorough engineering, unparalleled equipment and quantity production.

STEEL FOLDING CHAIRS

"The Folding Forties"

The phenomenal success of this line is due to the remarkable values we have been able to build into these chairs, to the wide range of their adaptability, to their surprisingly comfortable design, to their limitless strength and durability, to the satisfaction which they invariably give and to the unqualified guarantee with which they are sold.

Ply-wood and upholstered styles are unequalled for any purpose for which an easily removable unit is desirable; such as assembly seating in combination auditorium-gymnasium, school, church, church school, hotel, lodge and other assembly halls; for temporary and occasional seating, for waiting rooms, platform, lunch rooms, music rooms, and supplementary uses everywhere.

Styles in special colors or in chrome plate with black or special upholstering are fine enough for card-table or party use in the finest homes, or for any office or waiting room purpose.

The all-steel style, with posturally correct pressed-steel seat and back forms, is particularly adapted for factory workers, gymnasium or stadium service, porch, picnic, lawn and other outdoor or severe usage. Stadium type with steel frame and solid hardwood slat seat is adapted for severe service in or out-of-doors.



Nos. 47 and 49 — Upholstered Chairs

Seat and back in durable DuPont Cavalon upholstery over felted cotton, with taupe enamel on metal. Metal housing protects seat edge. Available in triple-plate chrome finish and durable black upholstery. Special color combinations on quantity orders.



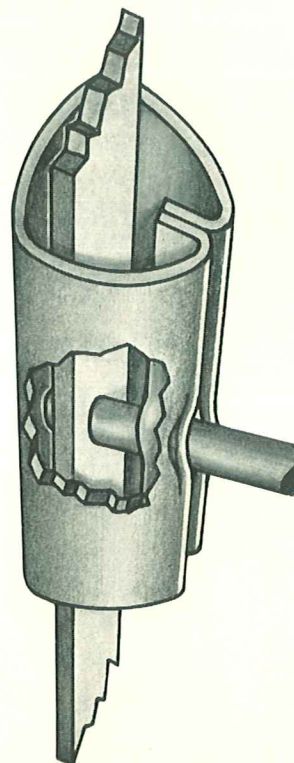
Nos. 44 and 48 — Ply-wood Chairs

Popular-priced, general-purpose chair with round edge, casein glued, five-ply seat in walnut stain and lacquer finish. Enameled steel frame and back panel. A surprisingly comfortable, real posture chair.

**FOLDING
FORTIES
REINFORCED
FOR ADDED
STRENGTH**

**Cross Section
(Actual Size)**

The main frame is reinforced at the hinge section by a solid bar within the tube.



Accessories

Storage trucks, clamps, etc.
See page 38.

AMERICAN TUBULAR

Folding Forties Construction

Frame — Long legs are one piece of triangular steel tubing with turned-in welded seam, reinforced with solid steel bar at point of bending strain. Rear legs of same material pivoted to carry strain vertically. The solid steel cross-rods are shouldered and riveted to frame. A chair structure of unequalled strength and durability.

Formed steel back panel is inserted and welded into the tubing. Lower edge round rolled. Posture-formed seat pivots on main frame and link action folds seat

and rear legs in one easy, silent motion. No sliding or binding parts. Front edge of seat protected by rounding or metal housing; rear edge by cross-rod.

Feet are drawn steel gliders equipped with replaceable moulded rubber shoes. Cannot injure finest floors.

Standard finish is hard-baked taupe enamel on metal, school-furniture-brown long lasting lacquer on best birch face ply-wood seats, and DuPont Cavalon upholstery. The best obtainable quality throughout.

★ ★ ★

No. 41 — Stadium Type Chair

For severe service in or out-of-doors. Steel frame and back panel, with five solid hardwood slats forming a comfortably contoured seat, saddled at front for under-knee ease. Two Parkerized steel dowels hold slats in position, with entire assembly securely bolted to seat frame. Baked taupe enamel on metal, seat in natural oiled finish or brown enamel.

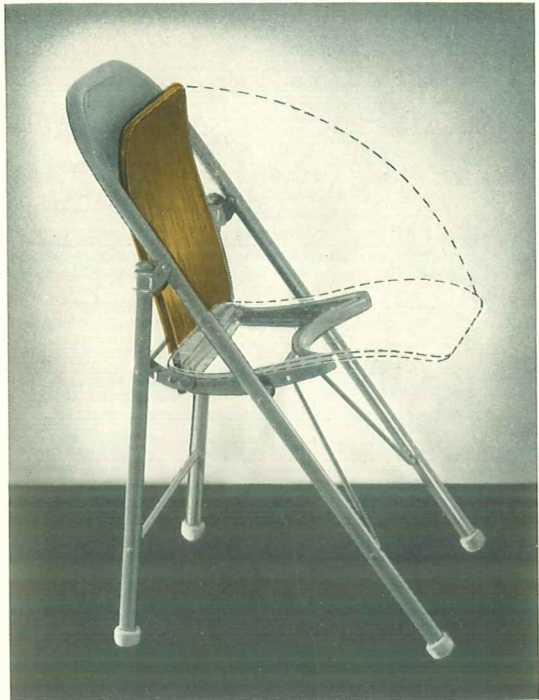


No. 43 — All Steel Chair

Scientifically designed to minimize fatigue. Combines real comfort with strength, lightness, durability, smoothness and cleanliness. Formed steel seat and back. Baked taupe enamel finish over all.

STEEL FOLDING CHAIRS

Auditorium Type with Independent Fold Seat



Ingenious hinge mechanism permits independent folding of seat which allows adequate passing room at conventional row spacing of 30" in auditorium arrangement. Seat supports and front cross-braces, as shown in illustration, permit standing back into chair space.

By means of bolts and clamps, chairs are securely held in sections of 2 or 3. Combinations of these sections make any desired row length. Sections used in conjunction with threshold strips make *stationary seating* within the intent of fire regulations.

Frame is the same as in the Folding Forties. Seat is 5-ply, $\frac{7}{16}$ ".

Adjustable friction check prevents slamming of seat.

Entire section is folded by lifting one seat support, which facilitates rapid floor clearance.



No. 50, Ply-wood Seat and Steel back panel.
No. 51, Upholstered Seat and back panel.

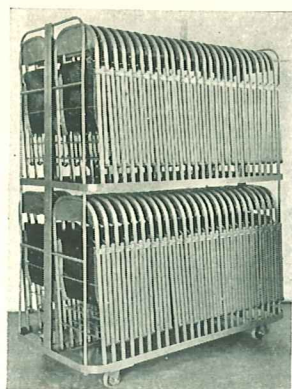


An Outstanding Value in Low Priced Chairs

No. 66 — a splendid value in a low-priced, lightweight, all-steel, flat-folding, X-type chair. For indoor and outdoor use. Double beaded channel pressed steel construction. Best in its price class.

FOLDING FORTIES ACCESSORIES

A Complete Folding Chair Service



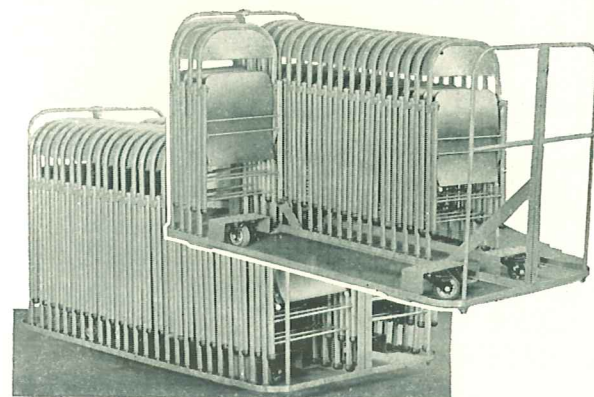
Double-Tier Storage Truck No. 2

Time and labor costs in clearing a hall make rapid movement important. This double-tier truck is designed for storing chairs where space height is available. All-steel construction, finished in taupe enamel, two fixed and two swivel silent, rubber-tired wheels. Capacity 100 chairs, weight 195 pounds, height 80", platform 66" x 36".



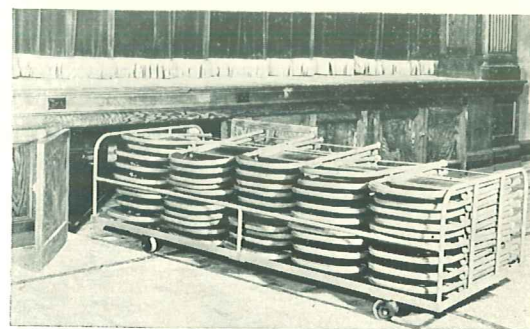
Midjet Truck No. 3

Light running, wood-and-steel construction. Four rubber-tired swivel wheels. Capacity 12 chairs, height 33", platform 31" x 18". Weight 30 lbs.



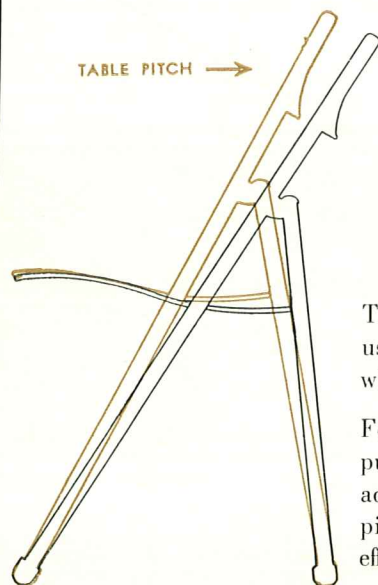
Single-Tier Storage Truck No. 1

This single-tier truck facilitates rapid clearance of halls and auditoriums. All steel with underslung frame. Chairs are racked rigidly on their feet. Two fixed and two swivel rubber-tired wheels. Capacity 50 chairs, weight 110 pounds, overall height 41", platform 66" x 36".



Understage Truck No. 5

For handling and storing chairs clamped in sections or singles and where understage space is limited. All steel underslung frame. Two fixed and two swivel rubber-tired wheels. Capacity 45 or more chairs, weight 140 pounds, height 23", platform 111" x 46".



AUDITORIUM PITCH

Auditorium Pitch

Nos. 41, 44, and 47

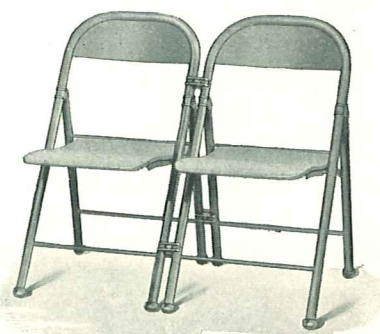
Table Pitch

No. 43, All-steel
No. 48, Ply-wood
No. 49, Upholstered

The ideal chair for auditorium use requires a back and seat pitch which permits complete relaxation.

For seated workers, for dining purposes and other forms of seated activity, the ideal chair has a back pitch which allows the occupant efficient use of the supporting back areas while in a more erect sitting position.

However, either the Auditorium or Table pitch chairs admirably and adequately meet every requirement for comfort and are superior in every way to most chairs people are obliged to sit in.



No. 44 Chairs clamped in sections

Clamps for Sectional Grouping—Ingenious clamps have been devised for uniting chairs in fixed sections. Where but two chairs are to be grouped, a neat all-metal clamp is adequate as shown. For sections of three or more chairs, a combination of metal clamp and wood stretcher is available. Chairs spaced one or two inches apart.

PORTABLE ASSEMBLY CHAIRS



**No. 602 — Upholstered Over Cotton Felt Pads
with DU PONT CAVALON in a
choice of colors.**

Rich looking, especially comfortable and very popular for public auditorium purposes.

★ ★ ★

Quality in Portable Chairs

The American Seating Company's line of Maple-Frame Portable Assembly Chairs has proved its outstanding superiority through wide usage over many years.

It is characterized by the finest selected materials, warranted flawless; by thorough workmanship and close attention to every detail of design and construction.

Attention is called to the structural provisions for resisting diagonal strains and rough treatment in handling, to the hinge device which distributes loads directly to solidly locked legs and thus avoids strains, deterioration, rocking and noises regardless of floor irregularities.

These products have been subjected to the most grueling laboratory tests.

★ ★ ★

Construction

Frame — Flawless hard maple throughout. Legs steam bent. Straight grained reinforcing tie-bars mortised and screwed to legs, and braced to end legs by pressed-steel brackets. All exposed faces and edges smooth rounded and finished.

Seat and Back — 5-ply hardwood, 7/16 inch thick, casein glued, selected grain birch face plies. Plywood is made in our own factory by the best methods and equipment known and is warranted to be the best obtainable. Backs are securely housed and fastened into each leg.

Hinges — Our patented double-pivot floating type hinges are self-adapting to adjust to floor irregularities with even distribution of strain and elimination of squeaks. The hinge play insures that all short legs lock solidly between the reinforcing tie-bars regardless of load distribution or uneven floors. Insures maximum strength, durability, smooth action and silent service.

★ ★ ★

No. 601 Ply-wood

A very popular chair widely used for convertible auditorium purposes in schools, churches, church schools, lodges, community centers and various assembly halls. The leader in the low-priced field.



AMERICAN SEATING COMPANY

The value of any auditorium is in the attendance it draws, whether returns are in ticket sales or in culture and community spirit. Empty seats are wasted money. Theatre managers find that the most comfortable seats pay the largest dividends; that Bodiform chairs pay for themselves at the box offices — besides saving in maintenance costs.

Choice of Artistic Color Combinations,

No. 10-M



In all the history of public seating no chairs have ever met with such widespread acclaim and approval — as expressed by the long list of orders and installations, the enthusiastic testimony of owners and managers, and the spontaneous admiration of patrons.

★ ★ ★

Reasons for their unparalleled popularity include:

Striking modern streamlined beauty.

Harmonizing color combinations.

Maximum comfort—through scientific contours and resiliency instead of clumsy bigness and softness.

More room at standard spacing for sitting and for passing.

Facility of movement for auditorium crowds.

New, use-tested principle of automatic seat-fold action.

Invisible, invincible, completely self-adapting hinge construction.

Elimination of pinching, tearing, scratching, tripping and stumbling hazards.

Managers report better housekeeping at less than half the cost.

Quick replacement of damaged upholstery by any attendant. New method of upholstering eliminates tacks and wood.

New designing and engineering, new materials, new construction methods, thoroughly tested and proved, replace the traditional in every detail.

Economy in space, in maintenance and in long service life.

Economy through greater patron appeal.

**THE BEST
IS THE
CHEAPEST**

Page 40

AUDITORIUM CHAIRS



Avion chairs are an incomparable value in low priced, attractive and remarkably comfortable auditorium chairs. They are the product of the same designing and engineering skill, the same thorough research, testing and inspection, the same unparalleled production facilities, which produced the peerless Bodiform chairs.

★ ★ ★

New construction principles throughout achieve new high standards of comfort, durability and serviceability.

End standards of taste and beauty in the spirit of modern artistic design.

Ball-bearing hinges with easy, silent, balanced action.

New American spring-arch seat construction, graduated to body pressure, provides maximum comfort. No obsolete coil springs.

Upholstered in DuPont Cavalon and in mohair worsted, each proved by thorough testing to afford maximum service in use.

Seat covers quickly, cheaply replaced by the custodian, by the simplest upholstery method ever devised — no tacks, no wood, no trouble, no delay.

Seat and back pitch adapted to any floor incline.

Choice of spring or padded back; or ply-wood backs either plain or metalclad.

THE BEST
IN ITS
PRICE CLASS

Page 41

Experience proves that for school and community purposes, the invitingly seated auditorium commands respect, multiplies voluntary attendance, enhances interest in, attention to, and enjoyment of programs; that attractive, comfortable upholstered chairs are less subject to vandalism and careless abuse. Only the well-seated auditorium truly becomes the center of community interest, life and pride.

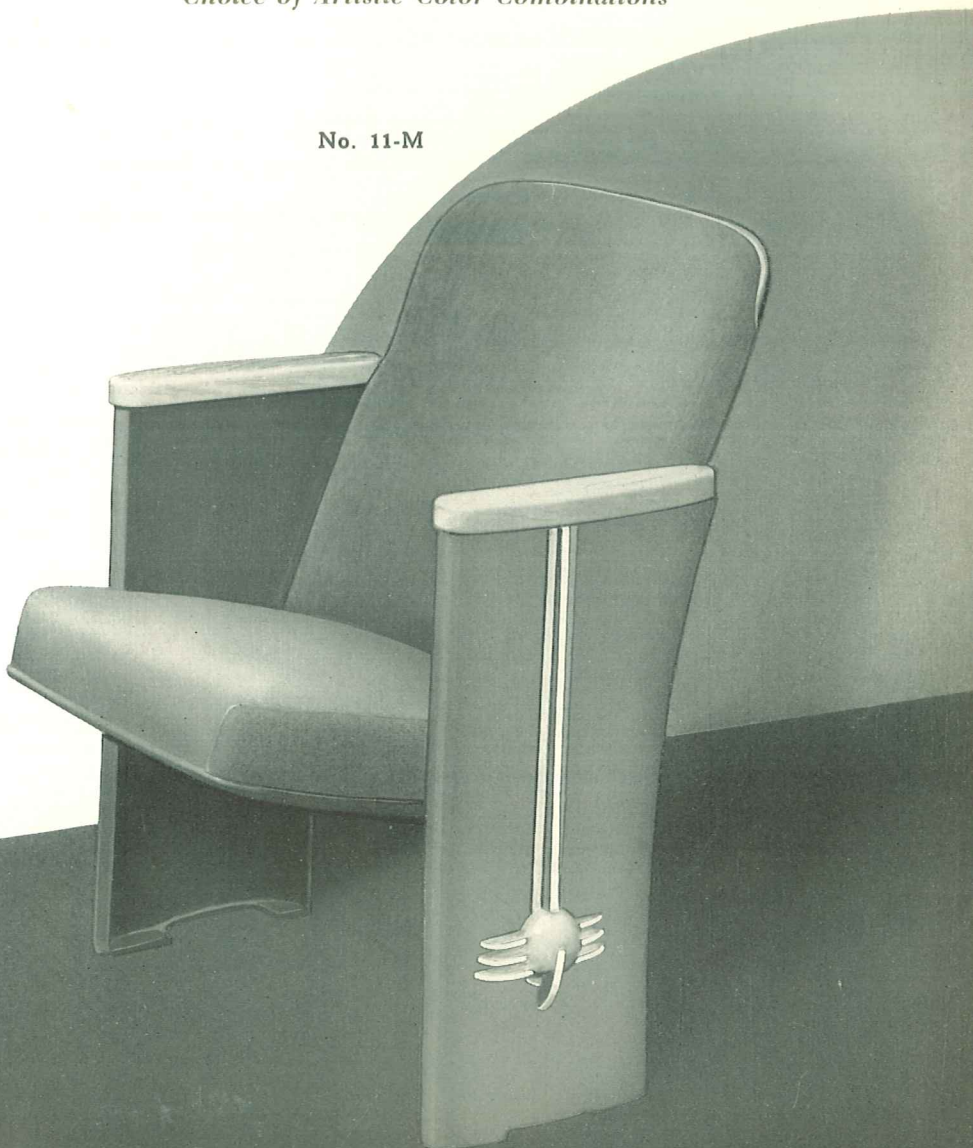
★ ★ ★

For the *ultimate in comfort* — both in the new chair and through long years of service — we particularly recommend our ***Foam Rubber Cushion over Spring-Arch Support***. Available in Bodiform and Avion chairs only.

★ ★ ★

Choice of Artistic Color Combinations

No. 11-M



AMERICAN SEATING COMPANY

We are able to offer incomparable values in auditorium seating because of unparalleled production facilities and equipment; because of endless research, testing and inspection; and because of a highly trained and experienced body of superior workmen.

Our prices are low because of economical quantity production, modern methods and equipment, avoidance of wasteful errors, wide distribution and invariable customer satisfaction.

12-M Now Available —

The outstanding beauty and superiorities of the American Bodiform standards, seat and hinge construction in combination with plywood backs — upholstered, metal-clad or plain.

This 12-M line provides in a medium priced unit many of the distinctive values of the peerless Bodiform chairs (see page 40). It is the meeting point of high ideals and the limited budget.

Metalclad Auditorium Chairs

Metalclad is an extruded aluminum channel molding with interior ridged formation which is forced into the wood under hydraulic pressure, insuring a permanently inseparable attachment. It imparts a strikingly rich appearance and insures long lasting beauty and service by preventing chipping or roughening of plywood edges.

★ ★ ★

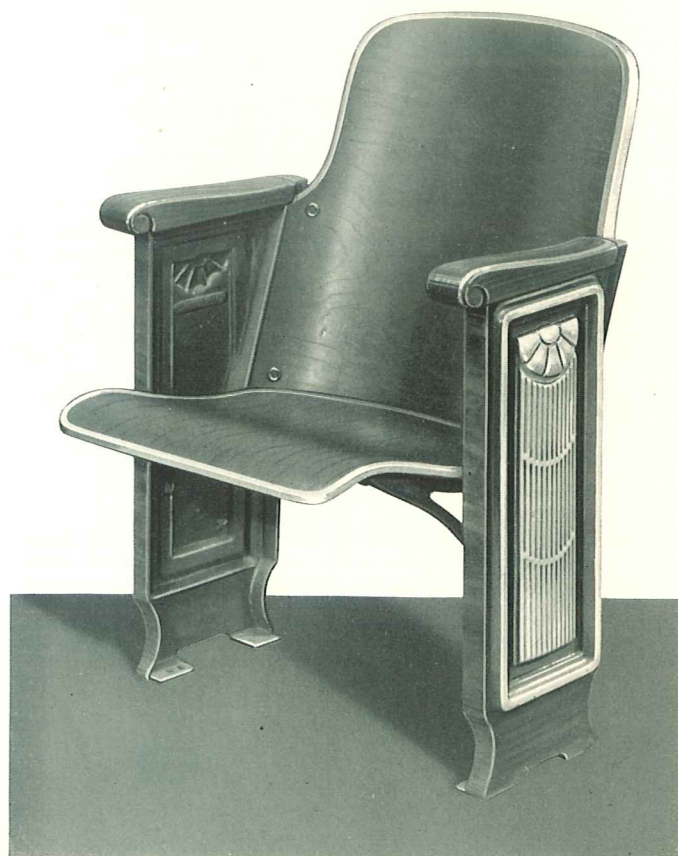


No. 11-034 — with No. 104 Standard, Upholstered Seat, *Metalclad* Plywood Back.

The *Avion* with 5-ply *Metalclad* back — an exceptionally attractive and serviceable unit for the school auditorium.

★ ★ ★

This very popular Colonial design, with deep curved back and long-roll seat, *Metalclad* on all edges, silent ball-bearing hinges, solid arm rests securely attached, offers the finest quality and values obtainable in a non-upholstered chair.



No. 11-034 — with No. 139 Standard, *Metalclad* Plywood Back and Seat.

AUDITORIUM CHAIRS

Make use of our engineering service. In the seating of an auditorium there are innumerable technical problems relating to floor materials and construction, dimensions of inclines, risers, spacing and sight lines, ventilators, aisle lights, acoustics and installation difficulties. Our engineering corps have unequalled experience in this highly special field. Their advisory assistance is available to architects and school officials without charge or obligation. Expensive errors may be avoided by consulting them in the early stages of planning. Customers have told us that our advisory service sometimes saves in building costs more than the price of the seating.

Let us take over your seating worries. Satisfaction is guaranteed.



★ ★ ★

No. 11-153 with No. 139 Standard — This end standard carries a dignified and authoritative design adapted from the decorative motif of the Upsal Mansion which is regarded as America's finest architectural expression of the Georgian Colonial period.

Equipped with a deep-curved 7-ply back and long roll 5-ply comfort seat, with silent ball-bearing hinges and securely attached solid arm-rests, this chair offers a dependable low-priced auditorium seating unit in fine quality and artistic taste.

In view of the exceptionally high standards of our plywood manufacturing; the superior workmanship, materials and finish used in these chairs; our rigid testing and inspection policy; we are confident that here is the greatest value ever offered at its price level.

No. 11-153 Tablet-arm Type with No. 198 Standard — This very successful, strong, quiet drop-leaf tablet-arm is completely rigid when in use; entirely out of the way under the seat when not in use. Raised and lowered while occupant is seated. Arm is dropped as one rises from the seat. Does not block passage-way when not in use.

May be added at any time to all, alternate, or as many chairs as desired. Available with No. 198 end standard as shown or on middle standards with ends of other styles.

★ ★ ★



STADIUM SEATING



No. 75 Riser Type



No. 69 Floor Type

From many a local school stadium to the finest of the big league ball parks, this Company's stadium seating is rendering splendid trouble-proof service. These chairs are built to withstand the hardest usage and exposure.

The riser type chair is particularly popular because of the clear leg and passage room and the greatly reduced costs of cleaning.

Frames are of a special high-grade shock and weather resistant cast metal, with a simple, durable seat hinge of great

strength. Bolts, steel tenons and slat spacers are treated to resist rusting. Arm-rests are broad and smooth polished. Metal is finished with a special durable out-door green enamel; woods in the same or natural oil finish as desired. Seats are made with five heavy, solid wood slats, doweled with two steel rods, spacers between slats, securely bolted to seat arms. Backs are either flat or deep-curved type, and are made with five steel-rod doweled slats, or with three wide or narrow slats; all ends fully housed.

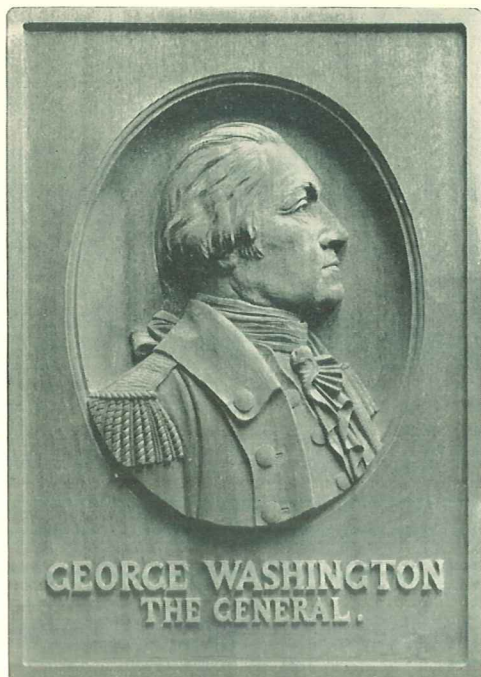
* * *

Make use of our engineering service. In the seating of an auditorium or stadium there arise innumerable technical details relating to the materials and construction of floors, inclines, risers and grades, sight lines, spacing, ventilators, aisle lights, acoustics, installation difficulties and other problems. Errors and oversights easily occur in such matters and often prove very expensive. We maintain a corps of engineers whose training and experience in this highly special field are unequalled. Their advisory assistance is available to architects and school officials without charge or obligation. For the sake of economy consult us in the early stages of your planning.

Our designers will be glad to advise regarding the adaptation of chair designs to your decorative scheme by means of color and covering material selections, or in the development of new designs. At Grand Rapids we have the most extensive and best equipped plant and the most experienced organization of engineers and workers ever devoted to the production of auditorium and other public seating. They are all at your service, not only to provide the best values obtainable in seating for all public purposes, but to insure an economical and completely satisfactory installation on every job, large or small, elaborate or inexpensive.

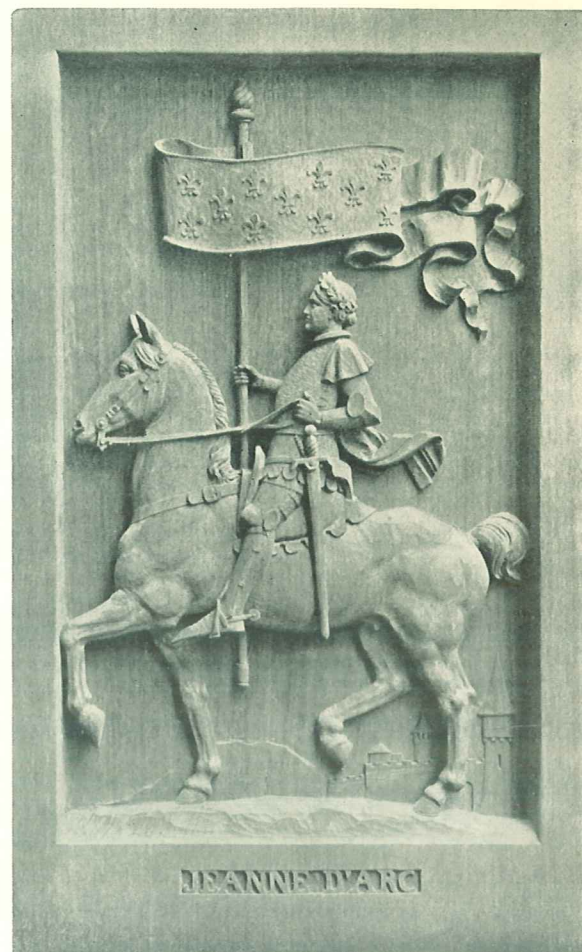
Let us take over your seating worries.

CLASS MEMORIALS



Can there be a more distinctively beautiful memorial than a finely carved wood portrait? What more worthy tribute to a distinguished citizen, educator or benefactor whom the school or graduating class desires to honor? Or a carved reproduction of an historic event of local interest? Life-like portraits, statuary and pictures in enduring wood are made from photographs. Estimates on request.

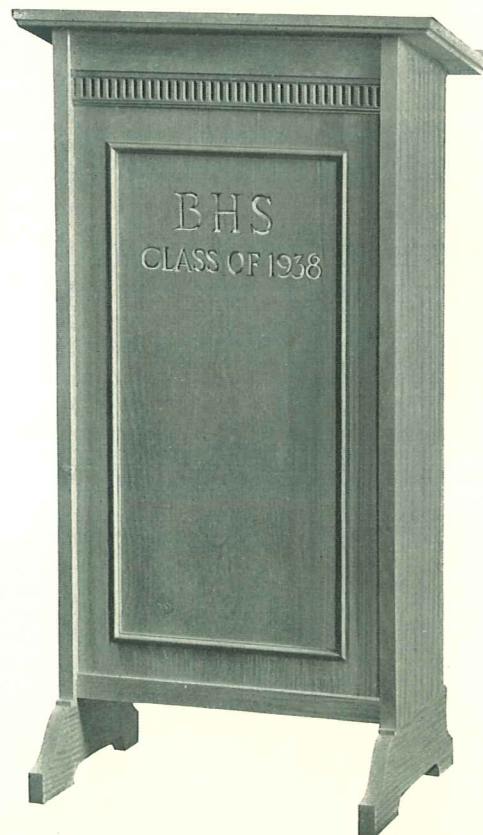
Perhaps a beautiful reading stand, bench or table, carved with school and class names and symbols? Special or standard designs submitted on inquiry.



Whether a simple inexpensive piece of fine quality is wanted or the most elaborate of memorials in wood, we invite your inquiries.

There's a unique dignity, beauty and warmth in fine wood memorials not possible in other materials.

★ ★ ★



The Architectural Woodworking Department of the American Seating Company supplies high-grade pews, chancels, ecclesiastical furniture and carvings for the finest of American chapels, churches and cathedrals; and artistic woodwork for all types of interior memorials. The work of our Master Carvers is America's best and ranks with the world's finest.

SIZES AND ARRANGEMENTS OF CLASSROOM SEATING

The correct seat height for an individual cannot be determined from his standing height or any other measure except this simple rule: When the pupil is erectly seated with feet squarely on the floor there must be no pressure from the forward edge of the seat under the knees. If the seat is well formed there is no objection to its being an inch or two lower than this height limit, but it *must not* be higher.

The height of the writing surface should be such that when pupil is erectly seated, shoulders well down, and elbows fairly close to the sides, with palms flat on the desk, both forearms in writing position will be in full contact with the surface. However, unless the desk top has a slope of at least one inch in six, the point of reading or writing will be so far from the eyes as to necessitate stooping. There is no posturally or visually correct height for reading or writing on a *flat* top desk or table.

Adjustments are designed to provide perfect postural and comfort conditions in individual seating and to provide any desired assortment of sizes for seating used by different groups. It is not practical to readjust between classes or from day to day. Only a few adjustments annually in any room are necessary or desirable.

The American Seating Company's lines of classroom seating have been designed to meet as accurately as possible the size requirements of every class group in the simplest practicable manner.

Grade Distribution of American Universal Adjustable Desks

Size C is suited for any pupils in Grades I to III inclusive.

Size B is suited for any pupils in Grades II to VI inclusive.

Size A is suited for pupils in Grades V through High School with possibly a few exceptions in the highest grades.

Size AA is suited for high school and college students and adults.

This highly flexible adjustability makes the Universal Desk especially well suited for rural and other ungraded classes.

Non-adjustable desks and seats are furnished for High School and College use in any desired assortment of heights, and the assortment should be made with reference to the groups which will make the most use of them.

The modern ideal of classroom equipment requires a completely individualized seating unit for each pupil and at least one large table for group projects and activities, with several light chairs for use at the table or separately. Movable seating and small classes permit freedom in movement and placing of seats. Whether movable or stationary, seating should never be used so that window light shines directly into the eyes of pupils as they sit erect at their work, nor so that free passageway to and from the exit is obstructed for any pupil. Teacher's desk should not be at the left-front corner of the room.

Chair-Desks

Tops only are adjustable to individual needs.

Distribution is made on the basis of seat height, as follows:

Size C is suited for pupils in Grades II and III.

Size B is suited for pupils in Grades III to V and many in Grade VI.

Size A is suited for Grades VI and higher, including many adults.

Size AA is suited for large high school pupils and adults.

No. 101 Combination Desks

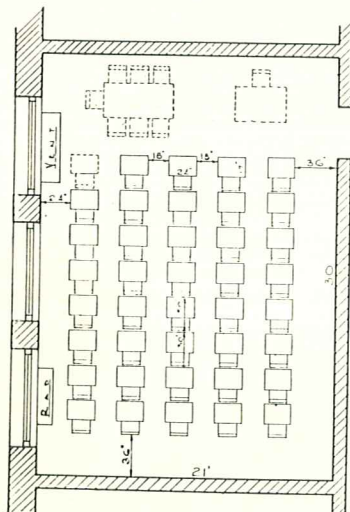
Complete adjustment to individual requirements is impossible with rigid non-adjustable equipment. The first essential is that seats must not be too high for any pupils. Low seats are unobjectionable, though desks too low result in interference with the knees of tall children. The following distribution of sizes based on forty pupils in a class, has been found generally satisfactory.

SIZE	5	4	3	2	1
Grade II.....	40				
III.....	20	20			
IV.....		30	10		
V.....		10	30		
VI.....			30	10	
Junior High School.....				10	30
Senior High School and Adults.....					40

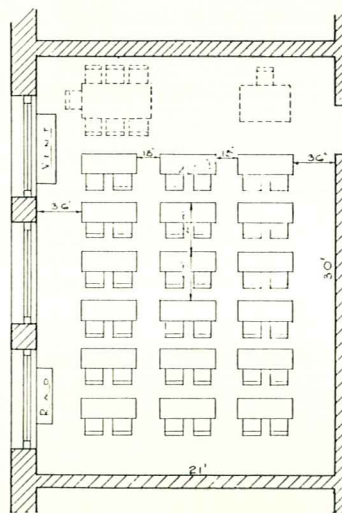
Table and Chair Distribution

For kindergarten or primary uses, table tops should be nine inches or ten inches above seat height, but four inches *clearance* for legs must be preserved between chair seat and *under* side of table structure. For upper grades, difference should be 10"-12" with six-inch clearance.

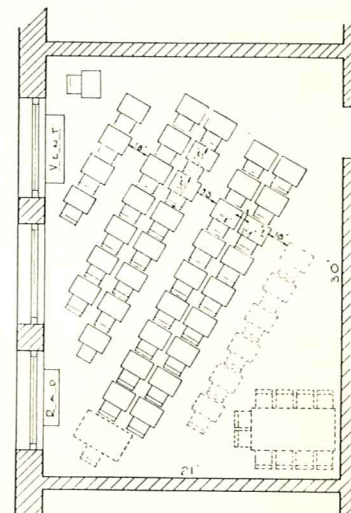
Seat heights: Kindergarten, 10-11; I, 11-12; II-III, 12-14; IV-V, 13-15; VI, 14-16½; VII-VIII, 15-17; High School-Adult, 16-18.



Traditional straight line arrangement. 40 sittings. Pupils in left-rear portion of room suffer from window glare. Small table accommodated with difficulty at front. A sixth row may be accommodated by eliminating alternate aisles (or if small size combination desks are used.)



Two-pupil tables with loose chairs. 36 sittings. Space (12") allowed for movement of chairs is inadequate for use with table drawers. Other arrangements of this equipment involve bad lighting conditions, blocking of passageways or inadequate chair space.



Diagonal arrangement. Flexible for 38 to 44 sittings as shown. Ideal lighting position at every desk (including one for left-handed pupil). Abundant open space for large table and various class activities. Preferred location for teacher's desk.

AMERICAN SEATING COMPANY

H. M. TALIAFERRO, President

ENNIS P. WHITLEY, General Sales Manager

FACTORY AND GENERAL OFFICE, GRAND RAPIDS, MICHIGAN
EASTERN AND EXPORT OFFICE—1776 BROADWAY, NEW YORK CITY

★ ★

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Eau Claire Book & Stationery Co.
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